

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A method of automatically capturing data for trend analysis comprising the steps of:

receiving a query for data from a database application;

issuing the received query to a database management system;

receiving a response to the query from the database management system, the response indicating a result dataset;

automatically creating or updating a database table that is suitable for trend analysis, the database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis[[:]] , the database table arranged so that subsequent executions of the same query will cause the database table to be updated with the addition of a current retrieved result dataset so that multiple executions of the same database query cause database table to contain multiple retrieved result datasets upon which trend analysis is to be performed; and

populating or updating the database table with data from the result dataset.

2. (original) The method of claim 1, wherein the creating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

3. (original) The method of claim 2, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

4. (original) The method of claim 2, wherein the response indicating the result dataset indicates a result data table and the populating or updating step further comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

5. (original) The method of claim 2, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;

retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.

6. (original) The method of claim 1, further comprising the step of determining whether the result dataset is to be captured for trend analysis; and wherein the creating or updating step comprises the step of creating or updating a database table that is suitable for trend analysis, if the result dataset is to be captured for trend analysis.

7. (original) The method of claim 6, wherein the creating or updating step comprises the steps of:  
analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an  
existing database table based on the format of the result dataset.

8. (original) The method of claim 7, wherein the populating or updating step comprises the step  
of:

populating or updating the database table with data from the result dataset and with  
timestamp information.

9. (original) The method of claim 7, wherein the response indicating the result dataset indicates a  
result data table and the populating or updating step comprises the step of:

for each row of data in the result data table, populating or updating a row in the database  
table with the row of data and with timestamp information.

10. (original) The method of claim 7, wherein the response indicating the result dataset indicates  
a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;  
retrieving all rows in the result dataset, if the result data table does not include all rows in  
the result dataset; and

for each row of data in the result data set, populating or updating a row in the database  
table with the row of data and with timestamp information.

11. (currently amended) A database connectivity layer comprising:

a database connectivity layer component operable to provide an interface between a database application and a database; and

a cover layer between the database connectivity layer component and the database application operable to capture and implement invocations by the database application of functions included in database connectivity layer component that ~~may involve the trend analysis of data over time~~ create or update a database table that is suitable for trend analysis, the database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis, the database table arranged so that subsequent executions of the same query will cause the database table to be updated with the addition of a current retrieved result dataset so that multiple executions of the same database query cause database table to contain multiple retrieved result datasets upon which trend analysis is to be performed, but pass through to the database connectivity layer component invocations by the database application of functions that do not involve trend analysis.

12. (original) The database connectivity layer of claim 11, wherein the cover layer is further operable to perform the steps of:

receiving a query for data from a database application;

issuing the received query to a database management system;

receiving a response to the query from the database management system, the response indicating a result dataset;

determining whether the result dataset is to be captured for trend analysis; and

if the result dataset is to be captured for trend analysis:

creating or updating a database table that is suitable for trend analysis, and  
populating or updating the database table with data from the result dataset.

13. (original) The database connectivity layer of claim 12, wherein the creating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

14. (original) The database connectivity layer of claim 13, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

15. (original) The database connectivity layer of claim 13, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

16. (original) The database connectivity layer of claim 13, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;  
retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.

17. (currently amended) A trendable database connectivity layer operable to perform the steps of:

receiving a query for data from a database application;  
issuing the received query to a database management system;  
receiving a response to the query from the database management system, the response indicating a result dataset;

automatically creating or updating a database table that is suitable for trend analysis, the database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis[[:]] , the database table arranged so that subsequent executions of the same query will cause the database table to be updated with the addition of a current retrieved result dataset so that multiple executions of the same database query cause database table to contain multiple retrieved result datasets upon which trend analysis is to be performed; and

populating or updating the database table with data from the result dataset.

18. (original) The trendable database connectivity layer of claim 17, wherein the creating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

19. (original) The trendable database connectivity layer of claim 18, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

20. (original) The trendable database connectivity layer of claim 18, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

21. (original) The trendable database connectivity layer of claim 18, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;

retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.

22. (currently amended) A database management system comprising:

a database operable to store and retrieve data;

a database application operable to utilize the database; and

a database connectivity layer operable to provide an interface between the database application and the database, wherein the database connectivity layer comprises:

a database connectivity layer component operable to provide an interface between a database application and a database; and

a cover layer between the database connectivity layer component and the database application operable to capture and implement invocations by the database application of functions included in database connectivity layer component that ~~may involve the trend analysis of data over time~~ create or update a database table that is suitable for trend analysis, the database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis, the database table arranged so that subsequent executions of the same query will cause the database table to be updated with the addition of a current retrieved result dataset so that multiple executions of the same database query cause database table to contain multiple retrieved result datasets upon which trend analysis is to be performed, but pass through to the database connectivity layer component invocations by the database application of functions that do not involve trend analysis.

23. (original) The database management system of claim 22, wherein the cover layer is further operable to perform the steps of:

receiving a query for data from a database application;

issuing the received query to a database management system;



receiving a response to the query from the database management system, the response indicating a result dataset;

determining whether the result dataset is to be captured for trend analysis;

creating or updating a database table that is suitable for trend analysis; and

populating or updating the database table with data from the result dataset.

24. (original) The database management system of claim 23, wherein the creating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

25. (original) The database management system of claim 24, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

26. (original) The database management system of claim 24, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

27. (original) The database management system of claim 24, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;

retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.

28. (currently amended) A database management system comprising:

a database operable to store and retrieve data;

a database application operable to utilize the database; and

a trendable database connectivity layer operable to perform the steps of:

receiving a query for data from a database application;

issuing the received query to a database management system;

receiving a response to the query from the database management system, the response indicating a result dataset;

automatically creating or updating a database table that is suitable for trend analysis, the database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis[[:]] , the database table arranged so that subsequent executions of the same query will cause the database table to be updated with the addition of a current retrieved result dataset so that multiple executions of the same

database query cause database table to contain multiple retrieved result datasets upon which trend analysis is to be performed; and

populating or updating the database table with data from the result dataset.

29. (original) The database management system of claim 28, wherein the creating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

30. (original) The database management system of claim 29, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

31. (original) The database management system of claim 29, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

32. (original) The database management system of claim 29, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;

retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.

33. (currently amended) A computer program product for automatically capturing data for trend analysis in an electronic data processing system, comprising:

a computer readable medium;

computer program instructions, recorded on the computer readable medium, executable by a processor, for performing the steps of

receiving a query for data from a database application;

issuing the received query to a database management system;

receiving a response to the query from the database management system, the response indicating a result dataset;

automatically creating or updating a database table that is suitable for trend analysis, if the database table does not already exist, the database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis , the database table arranged so that subsequent executions of the same query will cause the database table to be updated with the addition of a current retrieved result dataset

so that multiple executions of the same database query cause database table to contain multiple retrieved result datasets upon which trend analysis is to be performed; and

populating or updating the database table with data from the result dataset.

34. (original) The computer program product of claim 33, wherein the creating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

35. (original) The computer program product of claim 34, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

36. (original) The computer program product of claim 34, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

37. (original) The computer program product of claim 34, wherein the response indicating the result dataset indicates a result data table and the populating or updating step comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;

retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.

38. (original) The computer program product of claim 33, further comprising the step of determining whether the result dataset is to be captured for trend analysis; and wherein the creating or updating step comprises the step of creating or updating a database table that is suitable for trend analysis, if the result dataset is to be captured for trend analysis.

39. (original) The computer program product of claim 38, wherein the creating or updating step comprises the steps of:

analyzing a format of the result dataset; and

creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset.

40. (original) The computer program product of claim 39, wherein the populating or updating step comprises the step of:

populating or updating the database table with data from the result dataset and with timestamp information.

41. (original) The computer program product of claim 39, wherein the response indicating the result dataset indicates a result data table and the populating or updating step further comprises the step of:

for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information.

42. (original) The computer program product of claim 39, wherein the response indicating the result dataset indicates a result data table and the populating or updating step further comprises the steps of:

determining whether the result data table includes all rows of data in the result dataset;

retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset; and

for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information.